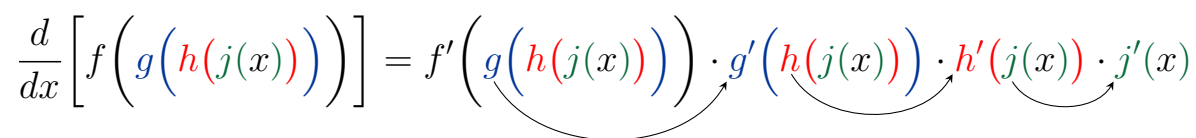


Note:

$$\frac{d}{dx} \left[f \left(g \left(h(j(x)) \right) \right) \right] = f' \left(g \left(h(j(x)) \right) \right) \cdot g' \left(h(j(x)) \right) \cdot h'(j(x)) \cdot j'(x)$$
The diagram illustrates the chain rule for the derivative of a composite function. The equation is written with the functions f, g, h, and j, and their derivatives, each in a different color: f is black, g is blue, h is red, and j is green. The derivative is calculated as the product of the derivatives of each function in the chain. Curved arrows indicate the flow of the derivative from the outer function f to the inner functions g, h, and j, showing how the derivative of f is passed to g, then to h, and finally to j.